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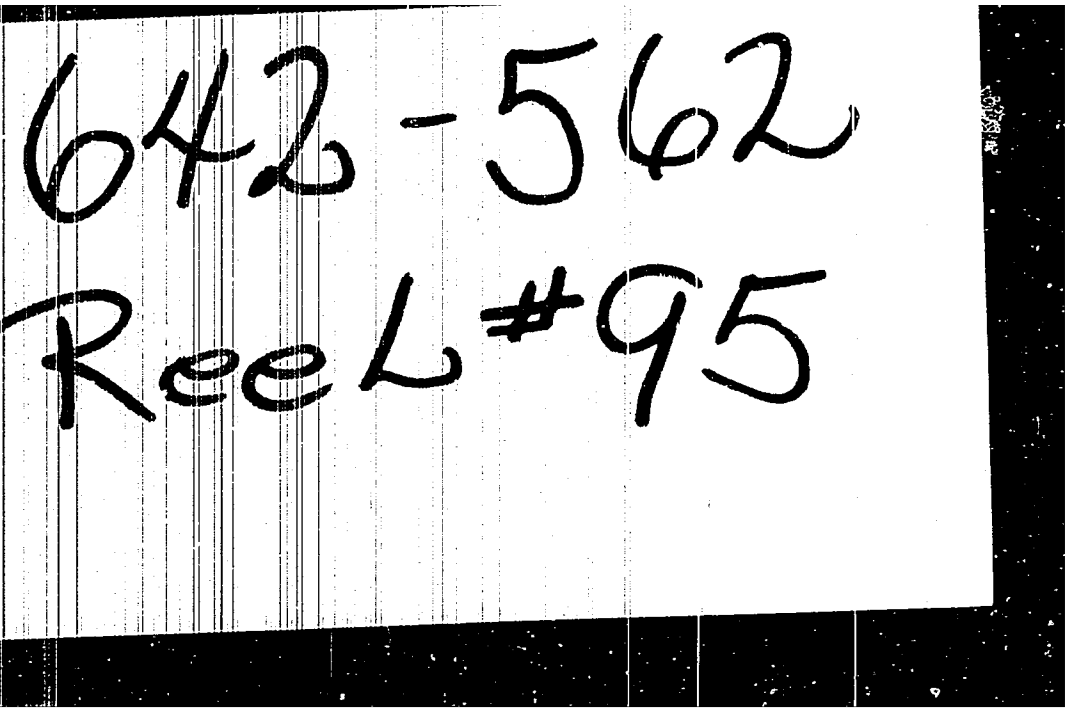

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Thickness of Emulsion Crystals and the Resolving Power of Photographic Emulsions, by I. R. Protas, P. Kh. Prugs, Yu. A. Krakau, 8 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXII, No 9, 1949, pp 973-982.

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A Study of the Processes Which Take Place in the Zinc Electrode of a Cell with an Alkaline Electrolyte, by Z. A. Iofa, et al,
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ACSI J-1176
ID 2204054866

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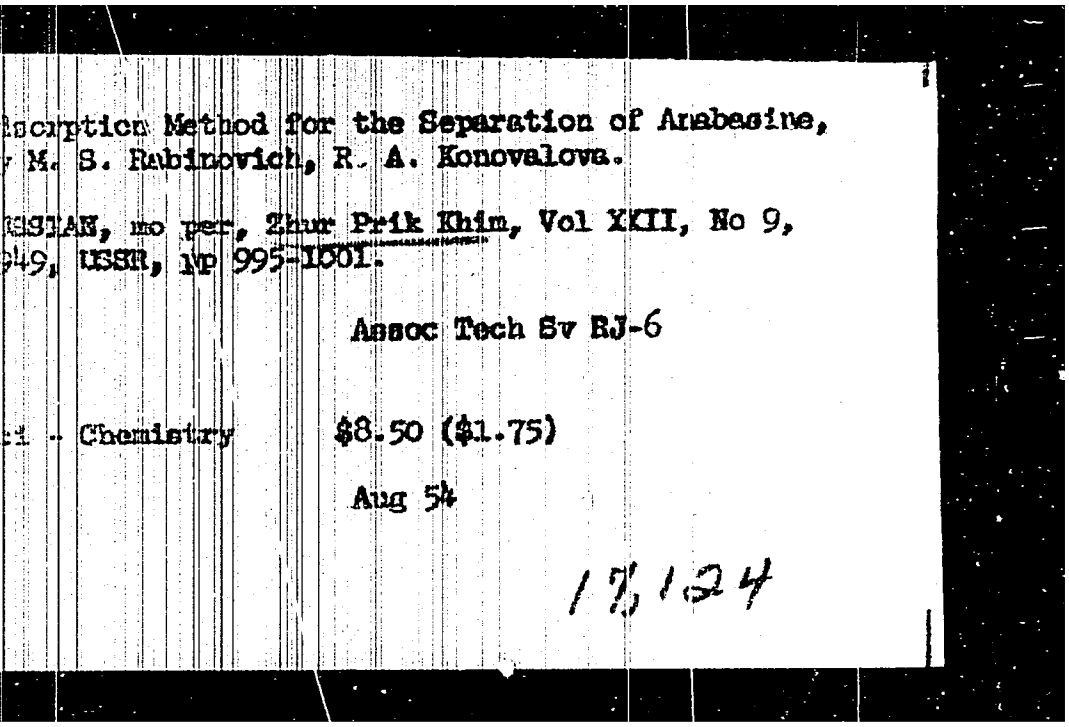

lsorption Method for the Separation of Anabasine,
y M. S. Rabinovich, R. A. Konovalova.

[illegible]SIAN, no per, Zhur Prik Khim, Vol XXII, No 9,
949, USSR, pp 995-1001.

Assoc Tech Sv RJ-6

[illegible] - Chemistry $8.50 ($1.75)

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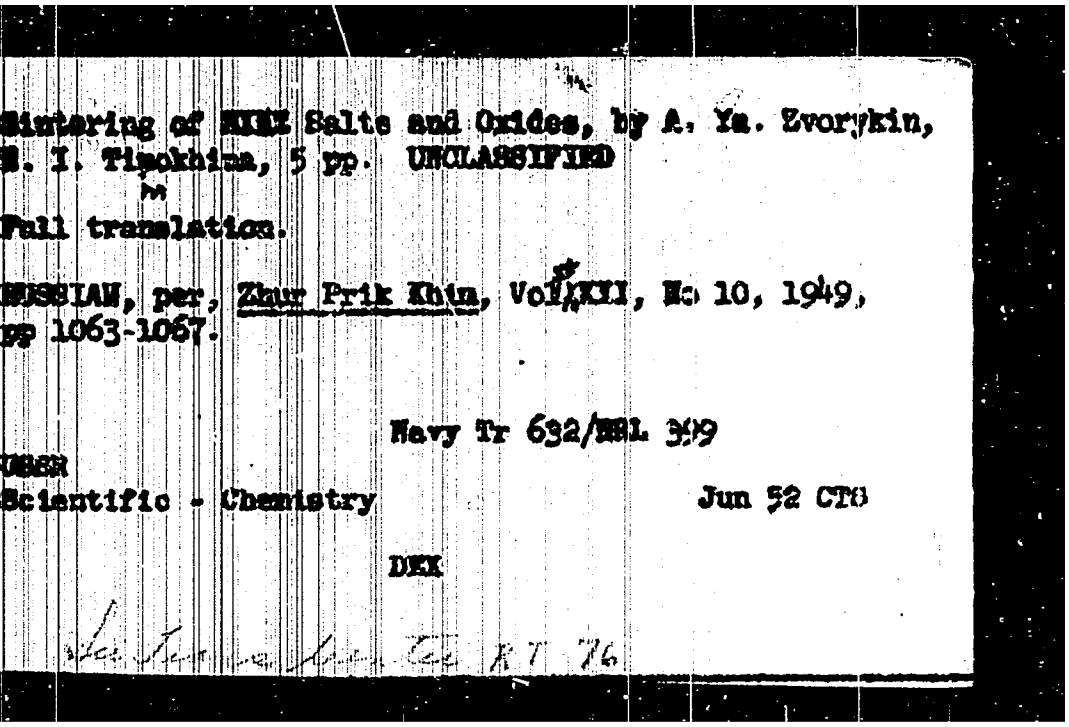

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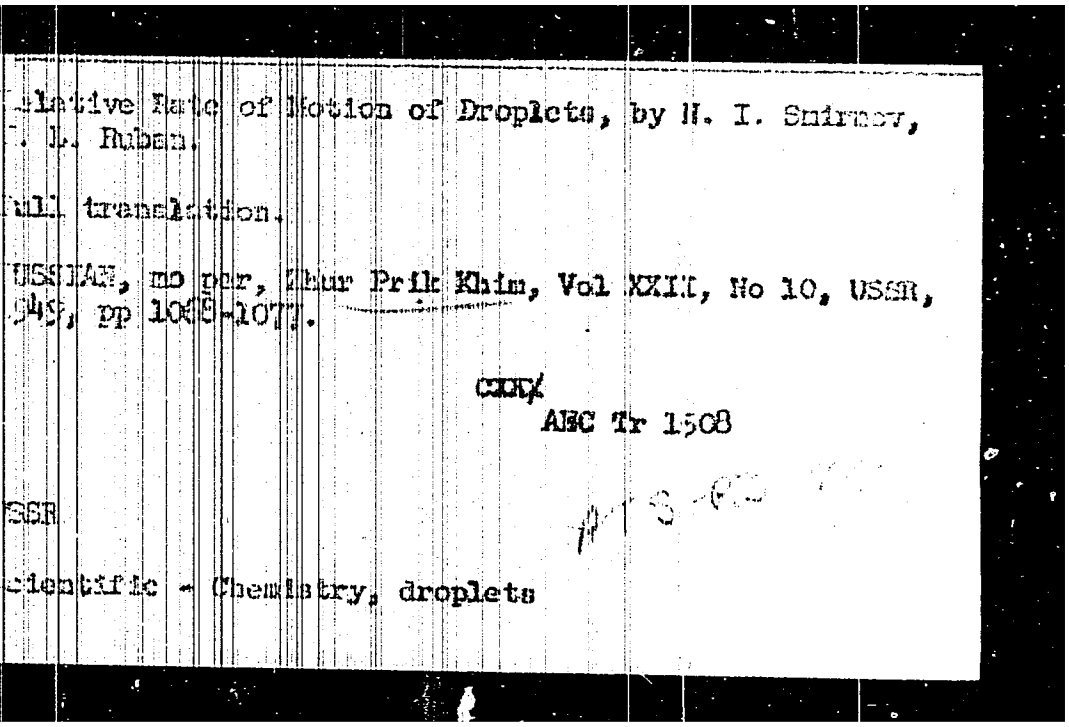

-lative Rate of Motion of Droplets, by N. I. Smirnov, . L. Ruban.

ull translation.

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The Potential Balance of an Electrolyser, by V. P. Mashovets, G. V. Foreblom, 5 pp.

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RUSSIAN, no per, Zhur prik khim, Vol XXII, No 10, USSR, 1949, pp 1083-1086.

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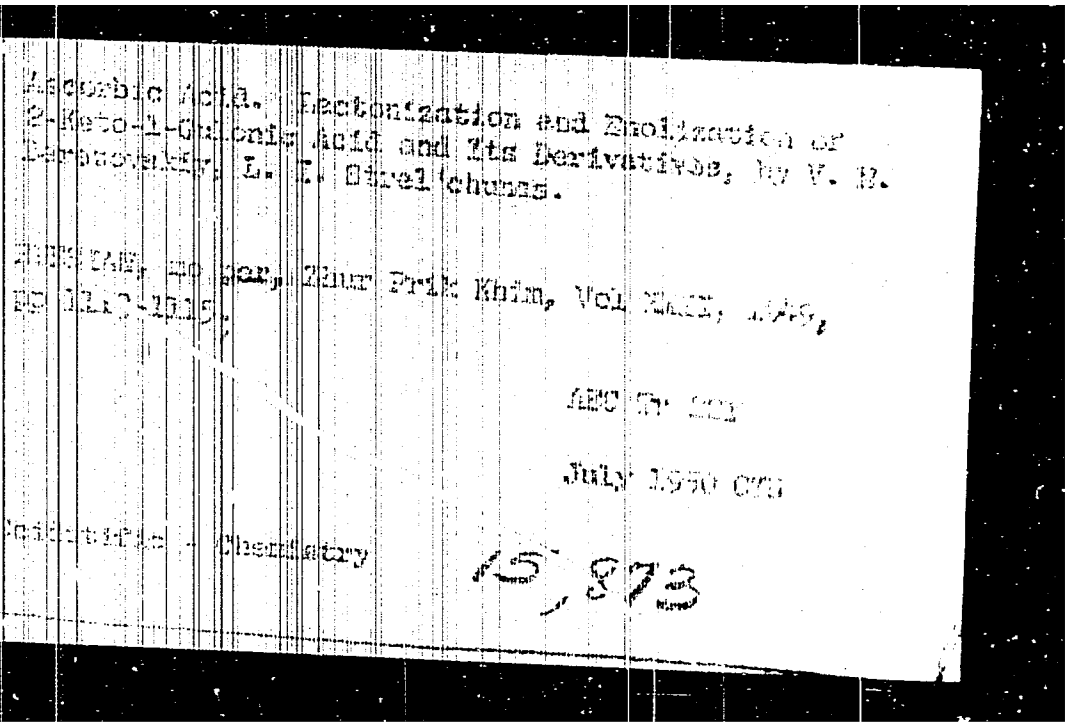

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2-Keto-L-gulonic Acid and Its Derivatives, by V. B.
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Catalytic Effect of Rocks on the Change in Petroleum Composition, by A. F. Dobryanskiy, et al.
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ATD RJ-1835

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104,583

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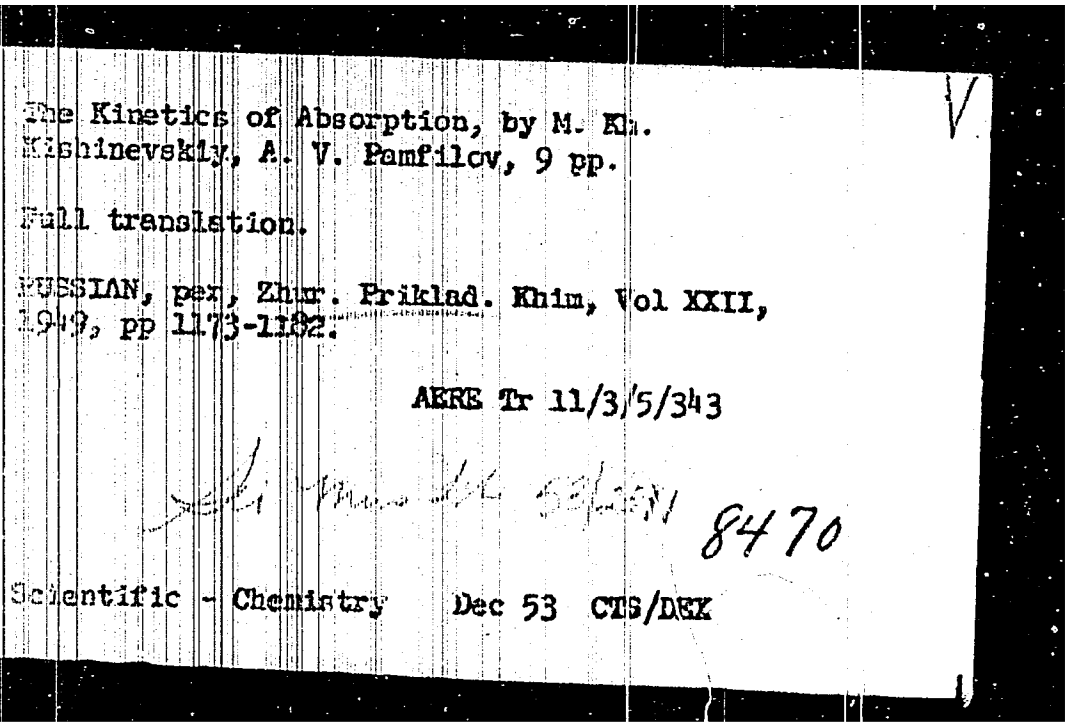

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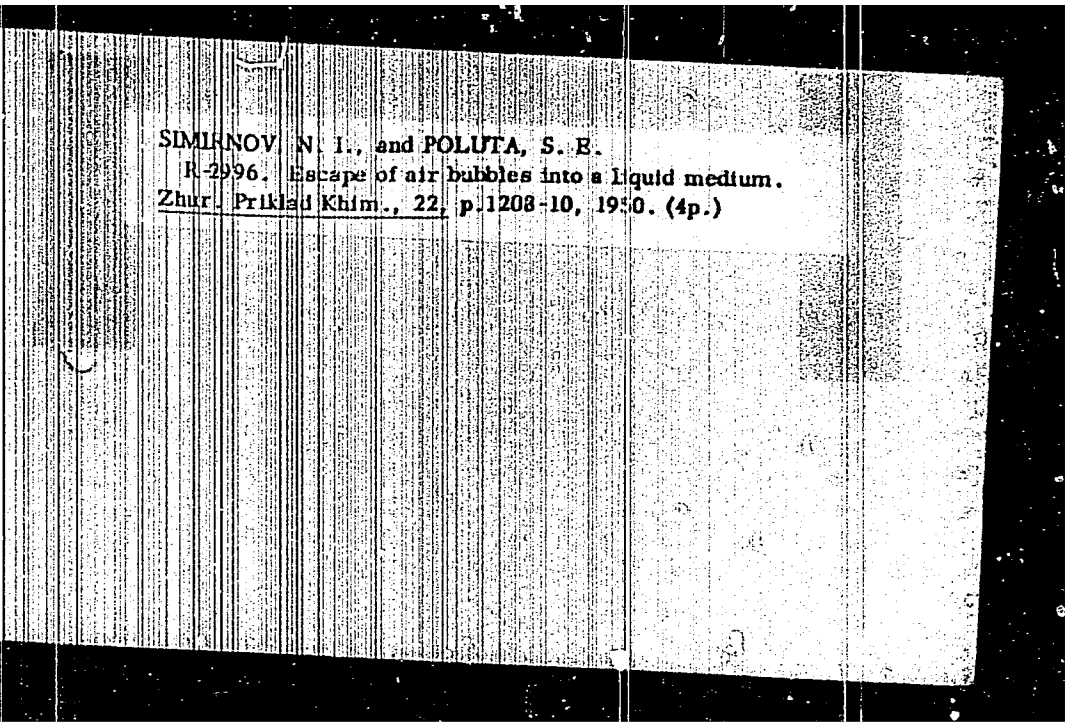

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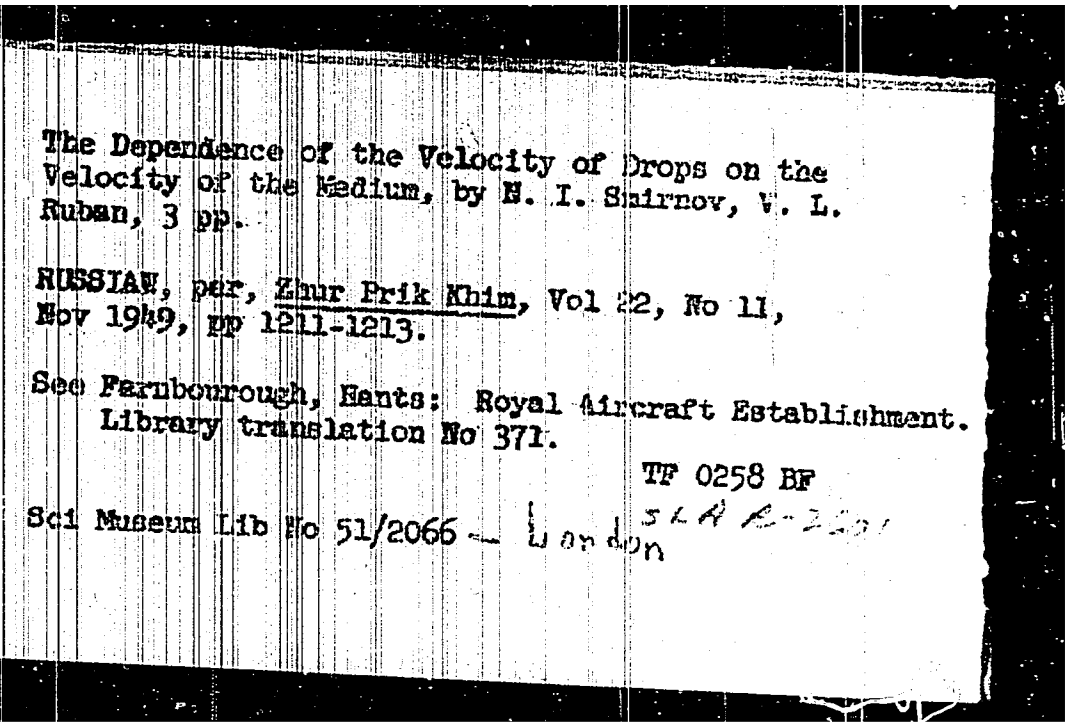

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The Mechanism of Mist Formation in the Manufacture of Sulfuric Acid Employing Nitrous Vitriol, by A. G. Amelin, A. I. Baranova,

RUSSIAN, per, Zhur Prik Khim, XXXXXXXXX Vol XXII, No 12, 1949, pp XX 1225-1230.

Assoc Tech Sv RJ-420

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Aug 1956

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Rules of Change in Volume During Blending of Hydrocarbons and Petroleum Fractions, by B. V. Kofle, 16 pp.

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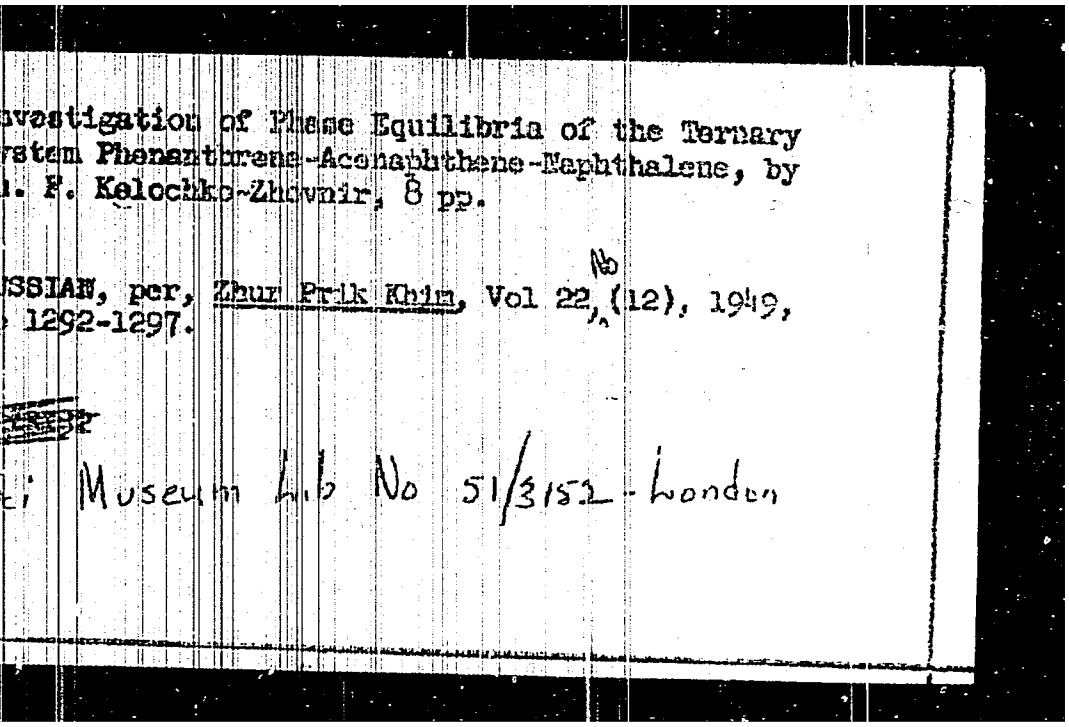

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RUSSIAN, mo, per, Zhur Prik Khim, Vol XXII, No 12, 1949, pp 1310-1320.

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Ottawa, Canada

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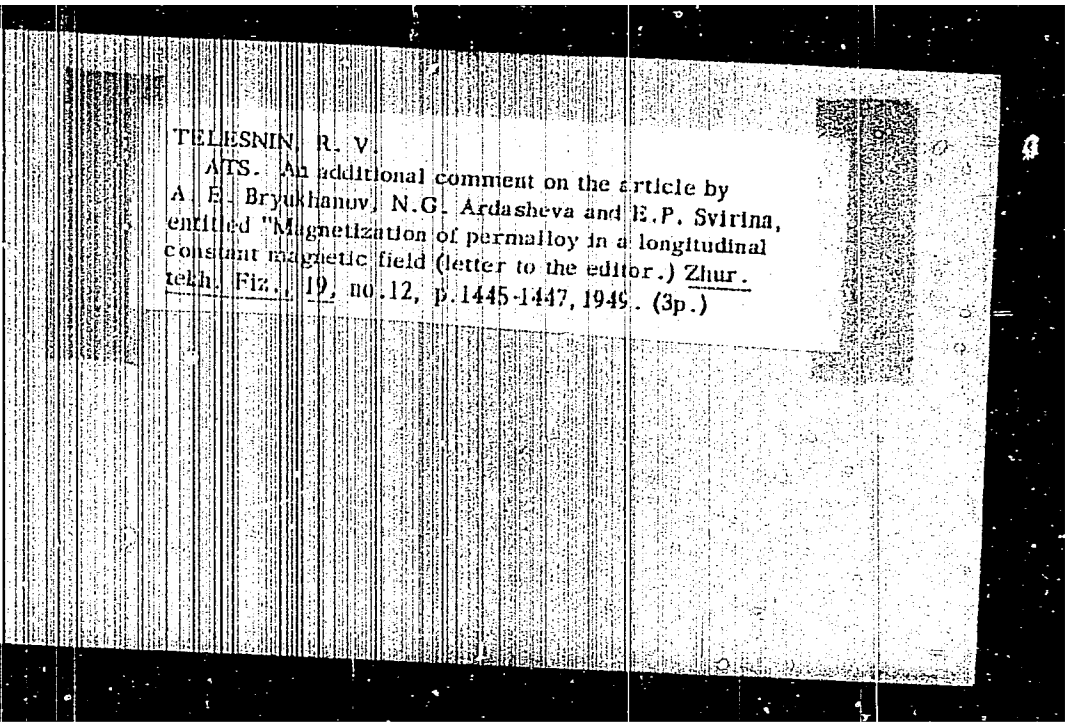

TELESNIN, R. V.

AUTS. An additional comment on the article by A. E. Bryukhanov, N.G. Ardasheva and E.P. Svirina, entitled "Magnetization of permalloy in a longitudinal constant magnetic field (letter to the editor.) Zhur. tekh. Fiz., 19, no.12, p.1445-1447, 1949. (3p.)

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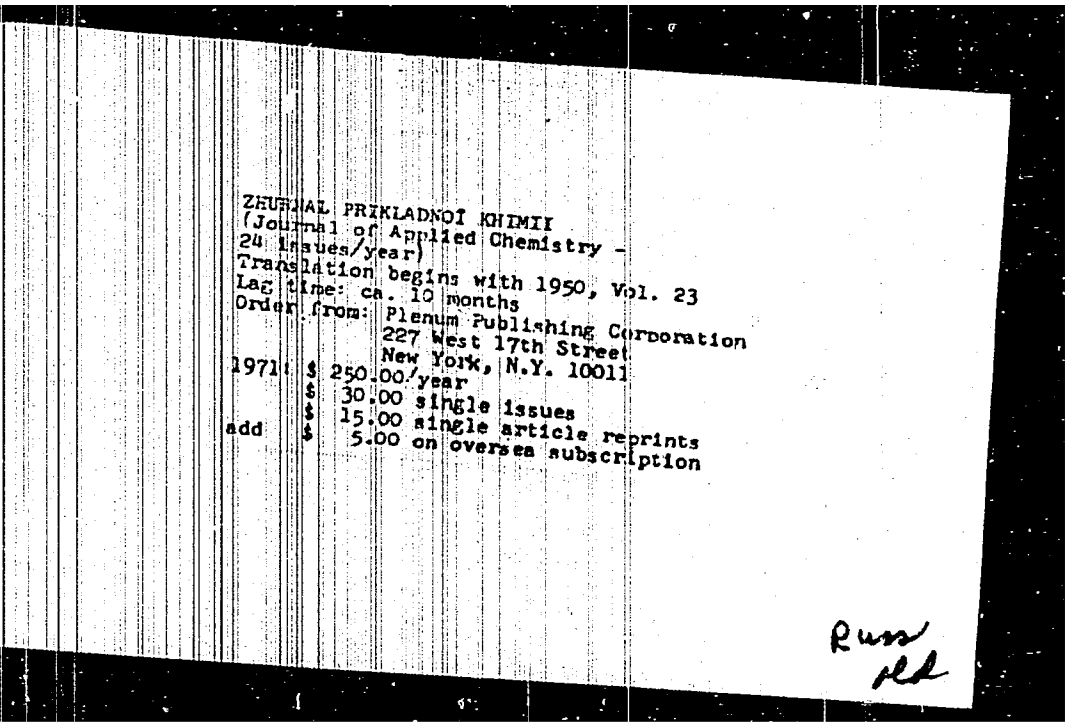

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(Journal of Applied Chemistry -
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Papko, S. L.
THE ACTION OF HOMOGENEOUS CATALYSTS.
[1964] 21p (figs omitted) 1ref
Order from OTS, SLA, or ETC $2.60 TT-64-10755

Trans. of #Zhurnal Prikladnoi Khimii (USSR) 1950, v. 23, no. 1, p. 8-20.
Another trans. is available from SLA as R-03046, 14p.

(Chemistry--Physical, TT, v. 11, no. 12)

TT-64-10755

I. Papko, S. L.
IL SLA-R-3046

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Markacheva, T. M. and Lebedeva, G. N.
HET BEREIDEN VAN NICOTINEZUUR UIT DE ZWARE BASEN VAN STEENKOLENTEER (Preparation of Nicotinic Acid from the Heavy Bases of Coal Tar). 12p. 1 ref. MTWL: 352. (Text in Dutch).
Order from OTS or ETC $1.65 61-17562

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1950, v. 23, no. 3, p. 299-305.

DESCRIPTORS: *Coal Tar, *Nicotinic Acid, Preparation, Pyridine derivatives.

61-17562

I. Markacheva, T. M.
II. Lebedeva, G. N.
III. MTWL-352
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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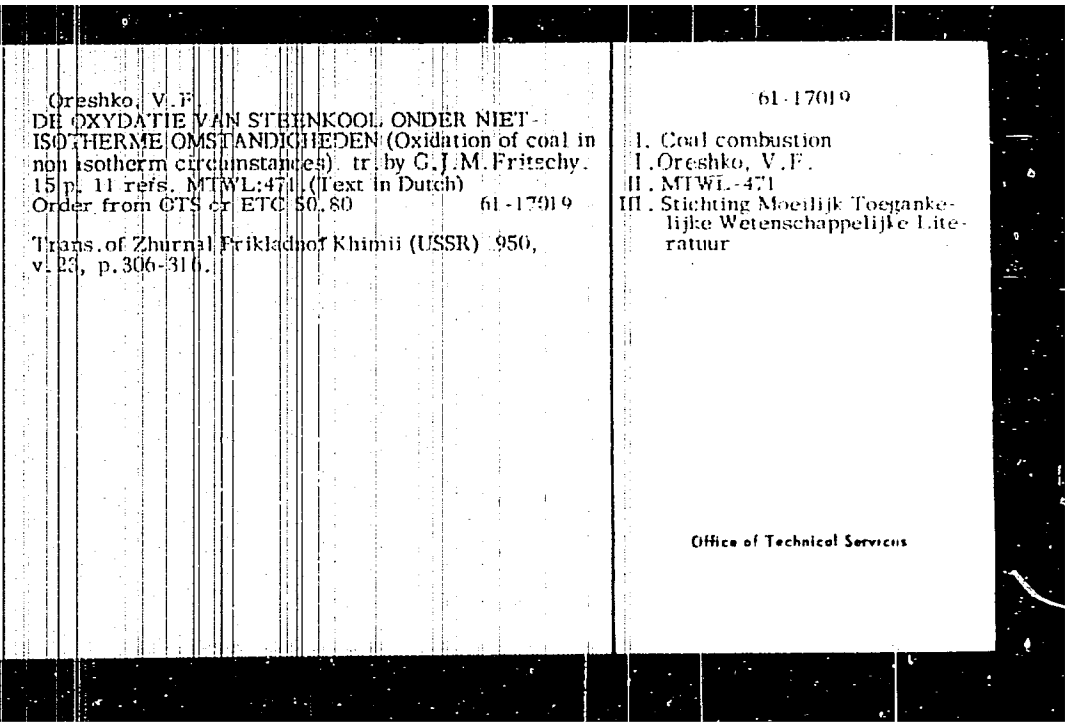

Oreshko, V.F.
DE OXYDATIE VAN STEENKOOL ONDER NIET-ISOTHERME OMSTANDIGHEDEN (Oxidation of coal in non isotherm circumstances) tr. by G.J.M. Fritschy. 15 p. 11 refs. MTWL:471. (Text in Dutch)
Order from CTS or ETC 50.80 61-17019

Trans. of Zhurnal Prikladnoi Khimii (USSR) 950, v. 23, p. 306-316.

61-17019

I. Coal combustion
I. Oreshko, V.F.
II. MTWL-471
III. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur

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Physicochemical Investigations of Magnesium Phosphates (System $MgO-P_2O_5-H_2O$ at 25° and 80° C), by A. P. Belopol'skiy, S. Y. Shpunt, M. M. Shul'gina, 17 pr.

RUSSIAN, per, Zhur Prik Khim, Vol XXIII, N 1950, pp 823-836.

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Moscow, 1950.

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Novikova, E.N. and Petrova, L.N.
DE KWANTITATIEVE BEPALING VAN KETONEN DOOR OXIMVORMING (Determination of ketones by an oximation method). 18 p. 9 refs. MTWL: 442 (Text in Dutch).
Order from OTS or ETC $1.85 61-17047

Trans. of Zhurnal Prikladnoi Khimii (USSR), 1950, v. 23, no. 12, p. 1336-1343.

DESCRIPTORS: *Ketones, *Oximes, Determination.

61-17047

I. Novikova, E.N.
II. Petrova, L.N.
III. MTWL-442
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur.

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Smirnov, N.I. and Ruban V.L.
RELATIEVE TRANSPORTSNELHEID VAN DRUPPELS IN HET OVERGANGSGEBIED. (Relative velocities of motion of drops in the field of transition). 9 p. 4 refs.
MTWL: 465 (Text in Dutch).
Order from OTS or ETC $1.55 61-17030

Trans. of Zhurnal Prikladnoi Khimii (USSR) 1951, v. 24, no. 1, p. 47-55.

DESCRIPTORS: *Drops, *Velocity, Reynolds number.

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Consultants Bureau
pp 56-60 NLL M.4540

61-17030

I. Smirnov, N.I.
II. Ruban, V.L.
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Smirnov, N.I. and Li De Ep.
STROMING DOOR EEN LAAG VASTE DEELTJES.
(Fluid flowthrough a layer of solid particles). 11 p.
9 refs. MTWL: 464 (Text in Dutch).
Order from OTS or ETC $1.85 61-17029

Trans. of Zhurnal Prikladnof Khimii (USSR) 1951,
v. 24, no. 1, p. 56-60.

DESCRIPTORS: *Boundary layer, *Particles, *Fluid flow, *Gas flow.

61-17029

I. Smirnov, N.I.
II. Li De Ep.
III. MTWL-464
IV. Stichting Moeilijk Toegankelijke Wetenschappelijke Literatuur.

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Smirnov, N.I. and Li De Ep.
EEN GESUSPENDEERDE LAAG BOLVORMIGE DEELTJES (Suspended layer of spherical particles).
12 p. 3 refs. MTWL-494. (Text in Dutch)
Order from OTS or ETC $0.80 61-17013

Trans. of Zhurnal Prikladnof Khimii (USSR) 1951, v.24, no.4, p.383-391.

61-17013

I. Hydrodynamics
I. Smirnov, N.I.
II. Li De Ep
III. MTWL-494
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Kishinevskii, M.Kh. and Kerdivarenko, M.A.
KINETIEK DER ABSORPTIE VAN KOOLZUURGAS DOOR NATRONLOOGOPLOSSINGEN IN EEN MENGVAT MET PROPELLERROERDER BIJ HOOG TOERENTAL (The kinetics of the absorption of carbon dioxide by solutions of sodium hydroxide in a high-speed propeller agitator). 14 p. 1 ref. MTWL: 462 (Text in Dutch)
Order from OTS or ETC $1.85 61-17027

Trans. of Zhurnal Prikladnof Khimii (USSR) 1951, v. 24, no. 4, p. 413-420.

DESCRIPTORS: *Carbon dioxide, *Sodium compounds, *Hydroxides, Adsorption, Stirrers, Chemical reactions, Velocity.

61-17027

I. Kishinevskii, M. Kh.
II. Kerdivarenko, M.A.
III. MTWL-462
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THE SEPARATION OF XYLENE ISOMERS BY AN ADSORPTION METHOD [AND] FRACTIONATION OF TECHNICAL XYLOLE BY AN ADSORPTIVE METHOD. [1960] [22]p. 13 refs. [DSIR LLU] M2065. Order from OTS or SLA $2.60 61-13422

Trans. of [Zhurnal Prikladnoi Khimii] (USSR) 1951, v. 24, no. 4, p. 421-432 and 1952, v. 25, no. 2, p. 224-228.

DESCRIPTORS: Separation, *Xylenes, Fractionation, Adsorption, Isomeric transitions, Coal tar, Chemical reactions, Monocyclic compounds, Toluenes, Carbon, Towers (Chemistry), Benzenes.

Studies of the adsorption properties of carbon, silica gel and ferro-gel with respect to the vapours of xylene isomers and ethylbenzene, together with an investiga- (Chemistry--Physical, TT, v. 6, no. 12) (over)

61-13422

I. Title: Xylole
I. Plachenov, T. G.
II. Kuzin, I. A.
III. Title: Fractionation ...
IV. DSIR. LLU M. 2065

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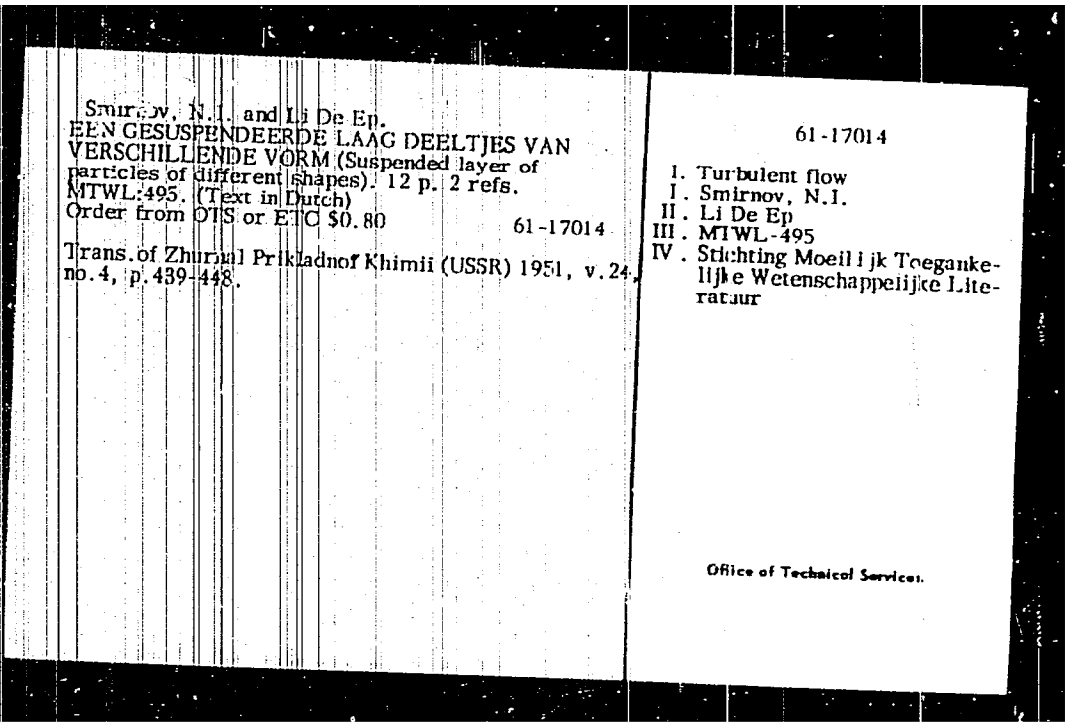

Smirnov, N.I. and Li De Ep.
EEN GESUSPENDEERDE LAAG DEELTJES VAN VERSCHILLENDE VORM (Suspended layer of particles of different shapes). 12 p. 2 refs.
MTWL:495. (Text in Dutch)
Order from OTS or ETC $0.80 61-17014

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I. Smirnov, N.I.
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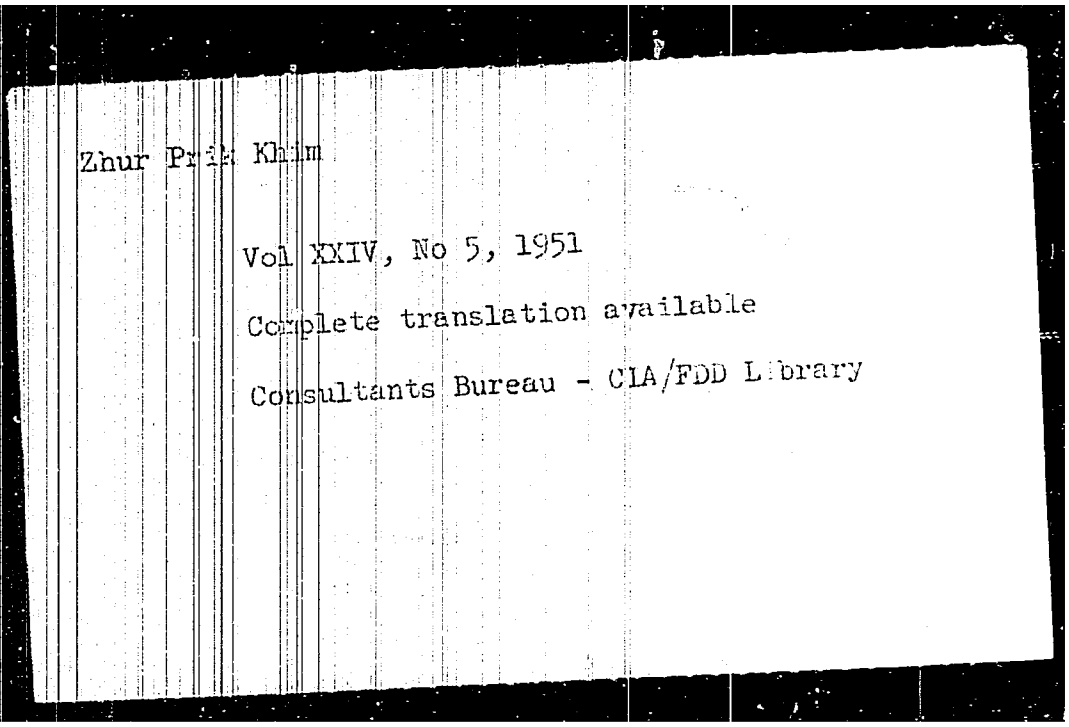

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The Conditions of Cross-Linking of Polymers, by
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Synthesis of Calcium Fluoride and Hydro-
Fluoric Acid From Fluosilicic Acid, by S. I.
Volikovich, M. G. Gabrielova.
RUSSIAN, per, Zhur Prikladnoi Khimii,
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SLA TT 64-20350

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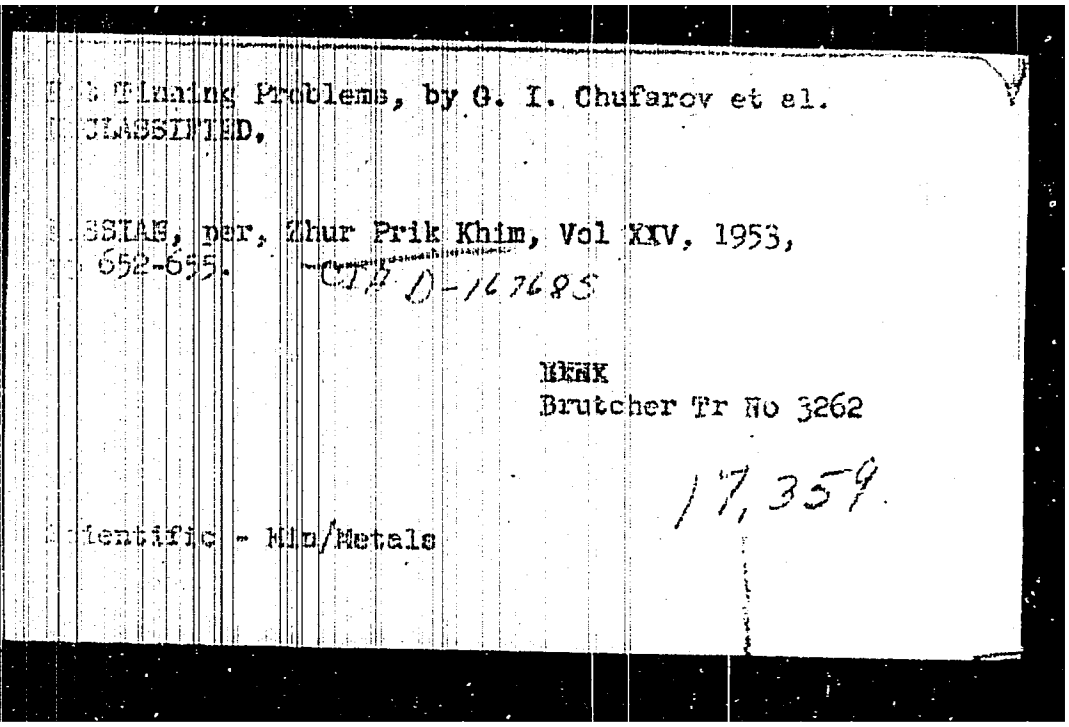

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NTC 69-11744-07B

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Study of the Equilibria of Distribution of Picric Acid Between Water and Nitrobenzene (I), by S. V. Gorbachev, E. Ya. Mindovich, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XXVII, 1953, pp 1837-1841.

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Vol 35, Nos 1-12, 1962
Vol 36, Nos 1-12, 1963
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Detonation of Acetylene, by R. I. Soloukhin, 5 pp.

RUSSIAN, per. Zhur Prik Mekh i Tekh Fiz, No 1, 1960, pp 18-24. 9999999

AEC Tr-5036

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Denisov, Yu. N. and Troshin, Ya. K.
MECHANISM OF DETONATION COMBUSTION (Mekhanizm Detonatsionnogo Sgoraniya). [1962] [56]p. (foreign text included) 21 refs.
Order from OTS or SLA $5.60 62-14552

Trans. of Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1960, no. 1, p. 21-35.

DESCRIPTORS: *Combustion, Detonation, *Detonation waves, Propagation, Shock waves, Photographic analysis, Thermodynamics, Gases, Dynamics.

Proceeding from data obtained by the trace method and the method of photo-evolution on the periodic structure of detonation waves, we construct and compute a thermo-gas-dynamic model of detonation. In doing so, we attempt to clarify the elements of the detonation mechanism. (Author)
(Chemistry--Physical, TT, v. 8, no. 7)

62-14552

I. Denisov, Yu. N.
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Speed of Sound Along the Vapor Phase Equilibrium Curve. Speed of Sound in Saturated Water Vapor, by V. I. Avdonin, L. I. Novikov. RUSSIAN, per. Prikladnoy Mekh i Tekhn Fiziki, No 1, 1960, pp 58-62.
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Lozovskaya, V. F., Pashkov, P. O., and Serebryakov, A. V.

CONCERNING THE SPEED OF GROWTH OF CRACKS DURING THE PLASTIC FAILURE OF METALS (O Skorosti Rosta Treshchin pri Plasticheskom Razrushenii Metallov). [1962] [28]p. (foreign text included) 6 refs.

Order from OTS or SLA $2.60 62-18101

Trans. of [Zhurnal] P[rikladnoi] M[ekhaniki i] T[ekhnicheskoi] F[iziki] (USSR) 1960, no. 1, p. 103-109

DESCRIPTORS: *Metals, *Fracture (Mechanics), Plasticity, Creep, Deformation, *Failure (Mechanics), Temperature.

(Metallurgy, TT, v. 9, no. 3)

62-18101

I. Lozovskaya, V. F.
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Radiation in a Detonation, by I. M. Voskoboinikov, 2 pp.

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Flow of a Highly Heat-Conductive Gas in the Neighborhood of the Critical Point of a Blunt Body, by A. M Klimov, 6 pp.

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Calculation of Parameters of a Detonation Wave of Condensed Explosives, by A. Ya. Apin, 5 pp. RUSSIAN, per, Zhur Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 2, 1960, pp 54-55. 770571
Dept of Navy Tr 4647/ONI Tr 2083

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The Velocity of Sound Along the Vapor-Liquid Phase Equilibrium Curve. The Velocity of Sound Propagation in Saturated Carbon Dioxide Vapors, by I. I. Novikov, Yu. S. Tsplin.
RUSSIAN, per. Zhurnal Prikladnoy Mekhanika i Tekhnicheskoy Fizika, No 2, 1960, pp 112-113.
NASA TT F-11,087

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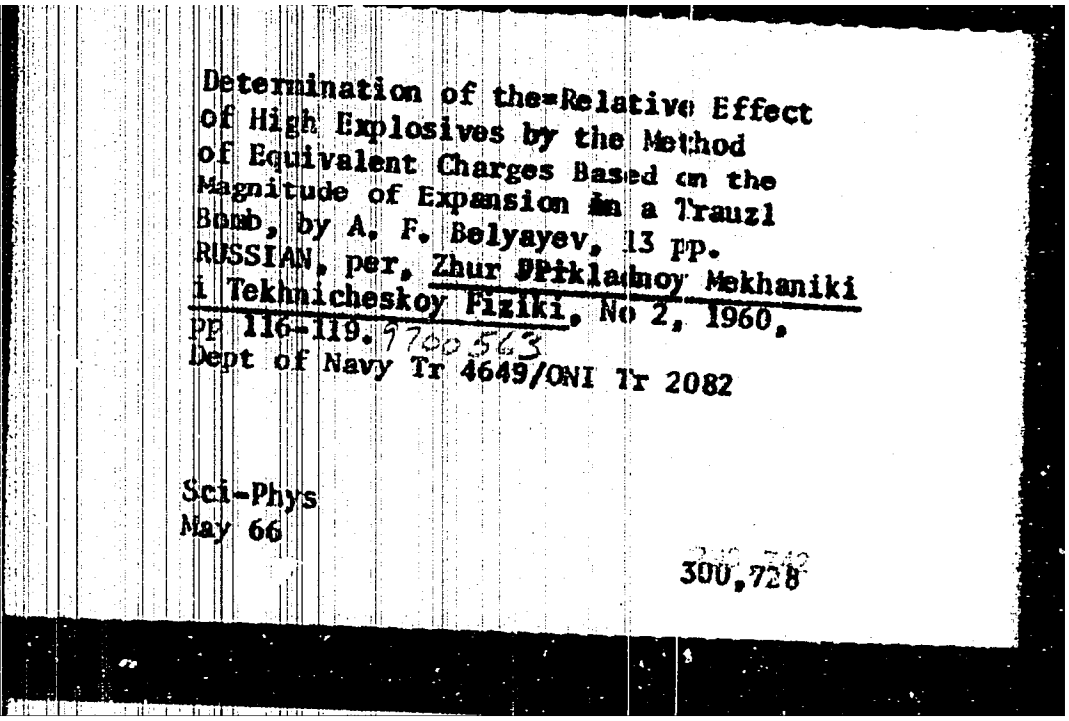

Determination of the Relative Effect of High Explosives by the Method of Equivalent Charges Based on the Magnitude of Expansion in a Trauzl Bomb, by A. F. Belyayev, 13 pp. RUSSIAN, per, Zhur Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 2, 1960, pp 116-119. 7700563
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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100470001-5

Zaonegin, V. L., Kozachenko, L. S., and Kostyuchenko, V. N.
AN EXPERIMENTAL STUDY OF THE FORMATION OF A GASEOUS BUBBLE AND SPOUT IN AN UNDERWATER EXPLOSION (Eksperimental'noe Issledovanie Formirovaniya Gazovogo Puzyrya i Sultana pri Podvodnom Vzryve). [1962] [16]p. (foreign text included) 2 refs.
Order from OTS or SLA $1.50 62-14010

Trans. of Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1960, no. 2, p. 120-124.

DESCRIPTORS: *Underwater explosions, *Explosion bubbles, Cases, Hydraulic models, Mathematical analysis.

This paper presents some results of an experimental study of the simultaneous development of a spout and
(Mechanics--Hydrodynamics, TT, v. 8, no. 10)
(over)

62-14010

I. Zaonegin, V. L.
II. Kozachenko, L. S.
III. Kostyuchenko, V. N.

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Lamper, R. E.
ON THE APPLICATION OF SOME AERODYNAMIC THEORIES TO THE CALCULATION OF FLUTTER OF A PANEL. [1962] [9]p. 2 refs.
Free copies available from Boeing Scientific Research Labs. Library as Boeing Trans. R41. When supply is exhausted, order from OTS or SLA $1.10, 62-18852

Trans. of Zhurnal Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1960, no. 2, p. 147-149.

DESCRIPTORS: *Aerodynamic configurations, *Panels (Structural), Aerodynamics, *Flutter, Equations of motion, Fourier analysis, Series, Aeroelasticity.

In a linear formulation a three-dimensional non-steady linearized theory may be used to determine the aerodynamic forces arising on a panel during flutter, however, its practical use in the majority of cases is associated (over)

(Mechanics--Aerodynamics, TT, v. 9, no. 4)

62-18852

I. Lamper, R. E.
II. Boeing Trans-R41
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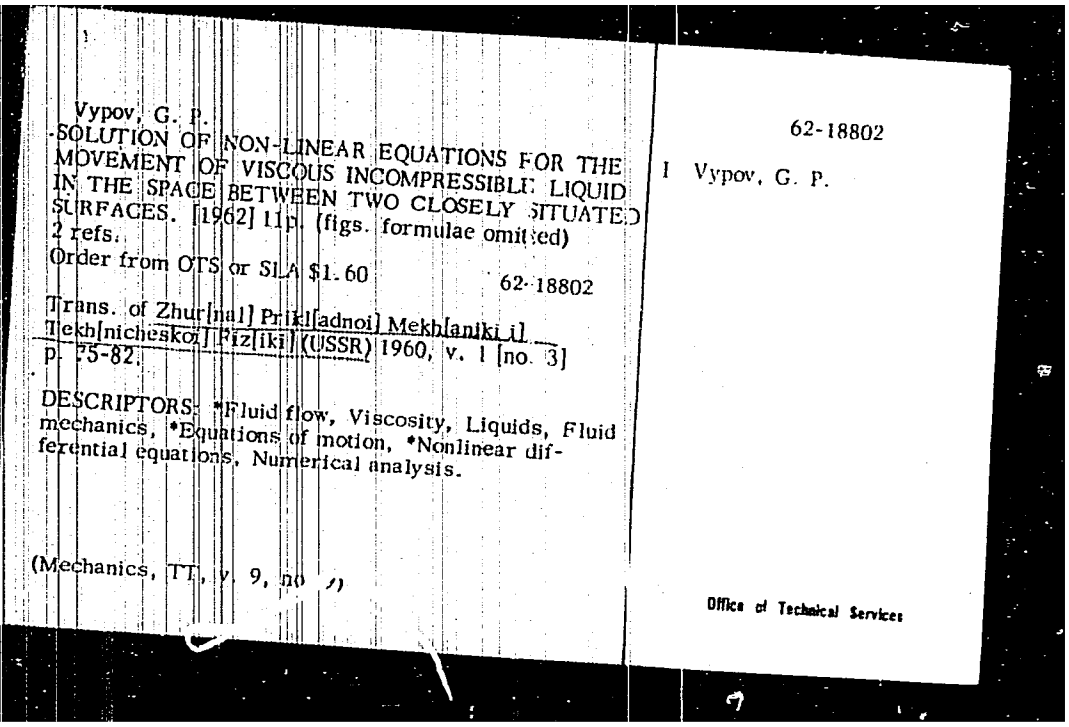

Vypov, G. P.
SOLUTION OF NON-LINEAR EQUATIONS FOR THE MOVEMENT OF VISCOUS INCOMPRESSIBLE LIQUID IN THE SPACE BETWEEN TWO CLOSELY SITUATED SURFACES. [1962] 11p. (figs. formulae omitted) 2 refs.
Order from OTS or SLA $1.60 62-18802

Trans. of Zhur[nal] Prikl[adnoi] Mekh[aniki i] Tekh[nicheskoi] Fiz[iki] (USSR) 1960, v. 1 [no. 3] p. 75-82.

DESCRIPTORS: *Fluid flow, Viscosity, Liquids, Fluid mechanics, *Equations of motion, *Nonlinear differential equations, Numerical analysis.

(Mechanics, TT, v. 9, no. 7)

62-18802

1 Vypov, G. P.

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R-5768-D
3 Sept 65

One Method for Solving Laminar Boundary Layer Equations
By: A. A. Dorodnitsin
From: ZH PRIK MEKH I TEKH FIZ No 3, 1960 pp111-118
(8 pp)

Russian - est for wds:

Type an original and one carbon copy. Include formulas and tables, but do not include graphs or charts. Document can be cut for paste-up.

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Shape of the Explosion Crater in a Surface Detonation by V. M. Kuznetsov, 10 pp.

RUSSIAN, per, Zhur Prikad Mekh i Tekh Fiz, No 3, pp 152-156, 1960.

AEC-UCRL-Tr-968(L)

Sci - Earth Sci & Ast

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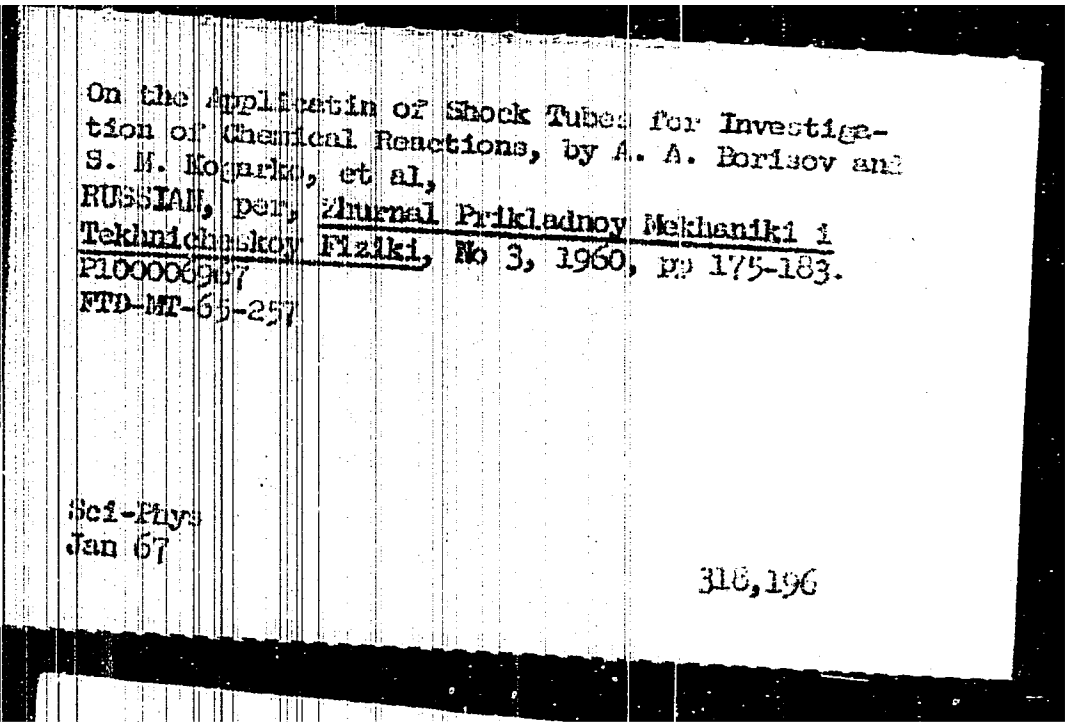

On the Application of Shock Tubes for Investigation of Chemical Reactions, by A. A. Borisov and S. M. Kogarko, et al,
RUSSIAN, per, Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 3, 1960, pp 175-183.
P100006967
FTD-MT-65-257

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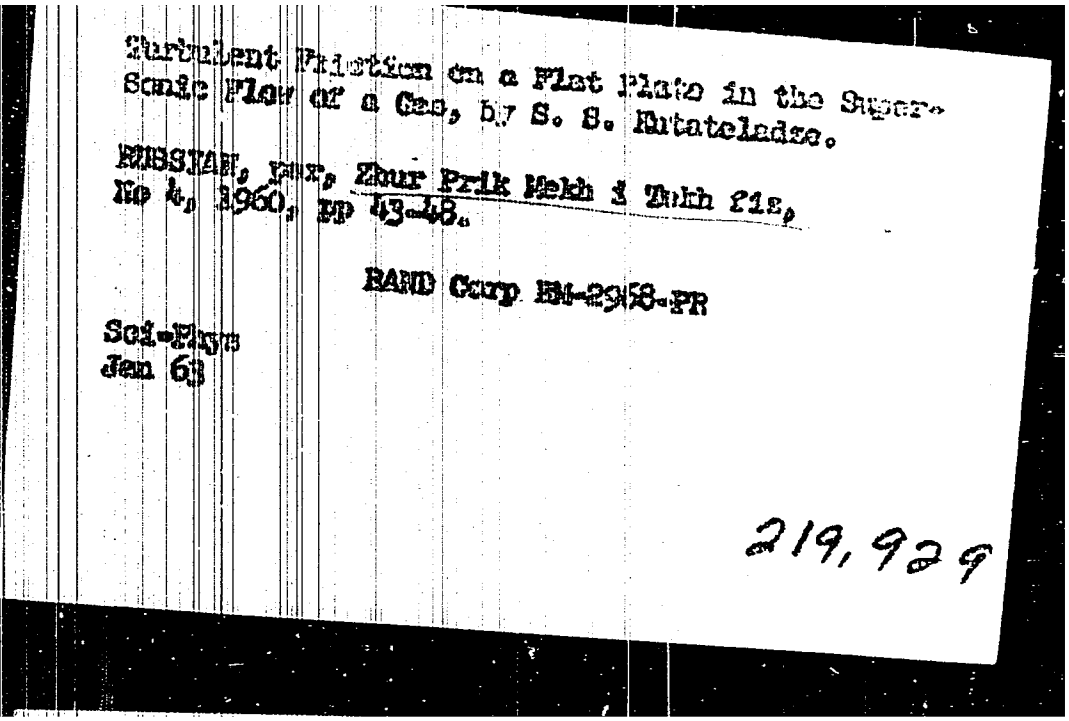

Turbulent Friction on a Flat Plate in the Supersonic Flow of a Gas, by S. S. Kutateladze.

RUSSIAN, Zhur, Zhur Prik Mekh i Tekh Fiz, No 4, 1960, pp 43-48.

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Directional Throwout of Ground With the Help of H. E.,
By V. M. Kuznetsov, M. A. Lavrent'yev, E. K. Sher,
4 pp.

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pp 49-50. 9093457

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Cinemotography of the Study of Under-Ground Explosions, by L. K. Belopukhov.

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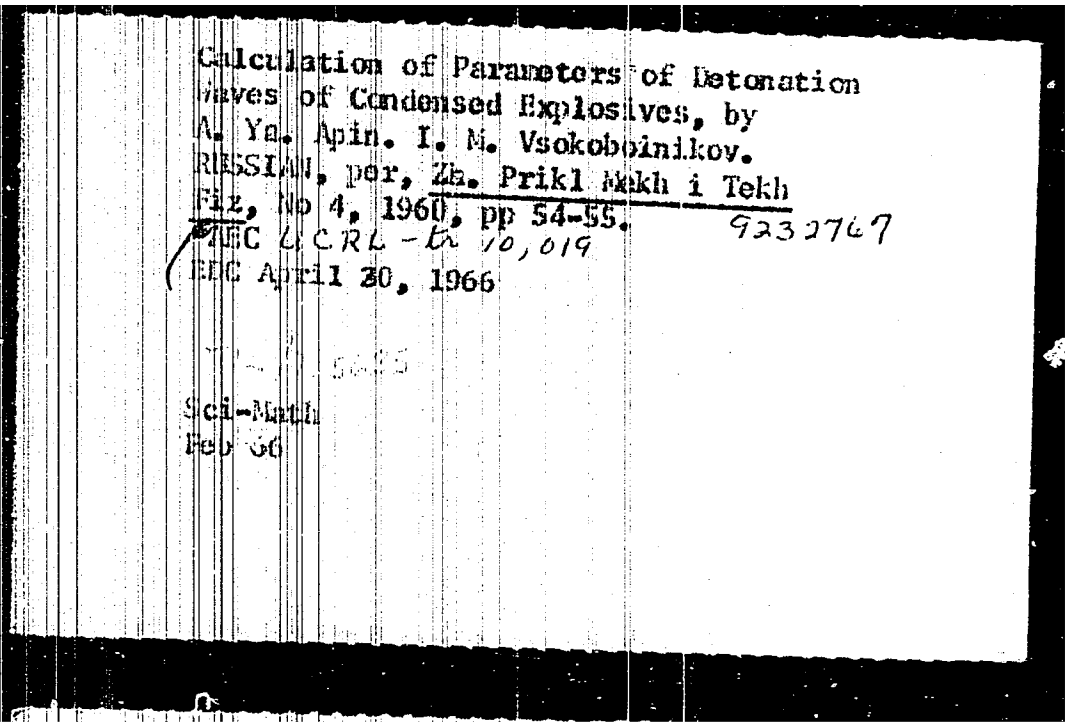

Calculation of Parameters of Detonation Waves of Condensed Explosives, by A. Ya. Apin. I. M. Vsokoboinikov. RUSSIAN, per, Zh. Prikl Mekh i Tekh Fiz, No 4, 1960, pp 54-55.

AEC UCRL-tr 10,019
AEC April 30, 1966

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Approximate Analysis of Lifting Forces on a Wing Near a Free Surface, by A. N. Panchenkov, 3 pp.

RUSSIAN, per, Zhur Prik Mekh i Tekh Fiz, No 4, Nov/Dec 1960, pp 67-68.

Navy Tr 3606/BuShips 825

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Creep of Duralumin Subject to Constant and Variable Loads, by V. S. Namestnikov.
RUSSIAN, per, Zhurnal Prikladnoi Mekhaniki, i Tekhnicheskoi Fiziki, No 4, 1960, pp 90-95.
NTC-71-15576-20K

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ON THE RATE OF GROWTH OF CRACKS DURING PLASTIC DESCRIPTION OF METALS, BY V. F. LOZOVSKAYA, P. O. PASHKOV, ET AL, 12 PP.

RUSSIAN, PER, ZHUR PRIK MEKH I TEKH FIZ, NO 5, 1960, PP L03-109. 9678055

FTD-TT-62-606

SCI - PHYS
SEP 62

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Numerical Calculation of the Motion and Laser Heating of a Plasma Formed by a Burst of Absorption on a Vapor of a Solid, by G. G. Vilenskoiya. RUSSIAN, per. Zh Prikl Mekhan i Tekhn Fiz, No 6, 1960, pp 3-20.
*Dept of Navy APL/JHU J-1509

Sci/Phys
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On the Stability of Oscillations of a Pinched Heated Panel Taking Into Account the Excess Aerodynamic Pressure, Applying the Linearized Theory, by T. Ya. Gert.

RUSSIAN, per, Zhur Prik Mekh i Tekh Fiz, No 6, 1960, pp 163-164.

*FTD-TT-62-1483

Sci - Phys

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The Motion of a Plasma Flow in a Tube in the Presence of External Electrical and Magnetic Fields, by V. M. Sarychev, 11 p.

RUSSIAN, per, Zhur Prikladnoy Mekh i Tekh Fiz, No 1, 1961, pp 3-9. 9664295

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20 Mar 62

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Equation of State and Heat Capacity of Water over a Wide Range of Thermodynamic Parameters, by N. M. Kuznetsov, 20 pp.
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Jan 62, 3p. 8 refs.
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DESCRIPTORS: *Heat transfer, *Fluid flow, Pipes, Thermodynamics, *Hydrodynamics.

(Physics--Thermodynamics, TT, v. 8, no. 10)

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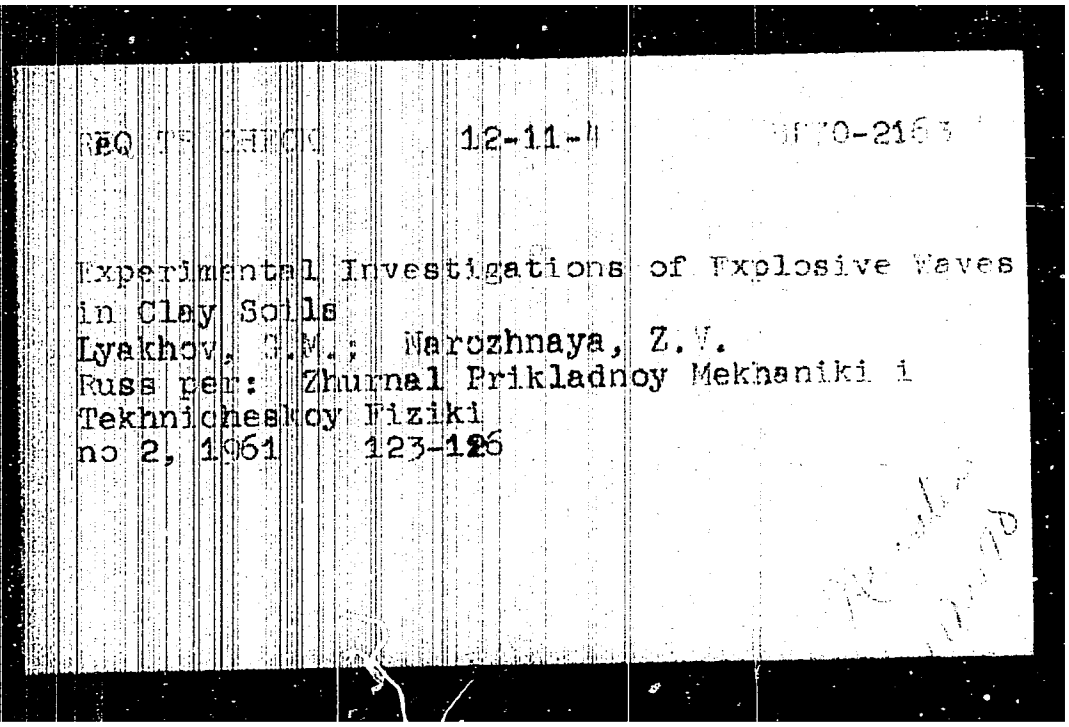

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Order from OTS or SLA $1.60 62-18823

Trans. of [Zhurnal] Prikladnoi Mekhaniki i Tekhnicheskoi Fiziki (USSR) 1961, no. 3, p. 85-92.

DESCRIPTORS: *Fracture (Mechanics), Elasticity, Load distribution, Mathematical analysis, *Rupture, Stresses, Brittle materials.

(Mechanics, TT, v. 9, no. 6)

I. Leonov, M. Ya.

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Bykovtsev, G. I.
PROPAGATION OF DISTURBANCES IN MEDIA WITH NONLINEAR STRESS-STRAIN RELATIONS. [1963]
10p. 9 refs.
Order from OTS or SLA $1.10 63-18487

Trans. of [Zhurnal] P[rikladnoi] M[ekhaniki i]-T[ekhnicheskoi] F[iziki] [USSR] 1961, no. 4, p. 102-108.

DESCRIPTORS: *Shock waves, *Propagation, Stresses, Mathematical analysis, Non-linear systems

An analysis is given of a problem of disturbance propagation in a medium with nonlinear stress-strain relation. Euler's representation for a solid medium is utilized; treatment of the problem is similar to that used by Taylor, but contrary to the latter's approach, here the principal attention is paid to the theory of propagation of shock waves.
(Mechanics, TT, v. 10, no. 9)

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